LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) For use in an ultra wideband (UWB) communication system, a method for communicating binary data as a sequence of UWB pulses using time division multiple access (TDMA), the method comprising:

allocating a succession of TDMA time intervals to respective users;

transmitting a first UWB user pulse in a first TDMA time interval;

receiving a first UWB user return pulse in the first TDMA time interval;

transmitting a second and other UWB user pulses in a second and subsequent respective TDMA time intervals; and

receiving a second UWB user return pulse in the second TDMA time interval, and other UWB user pulses in subsequent respective TDMA time intervals;

wherein each TDMA time interval is selected to be at least twice the propagation time needed to transmit data to a user, to minimize interference effects.

2. (Currently Amended) For use in an ultra wideband (UWB) communication system, a method for communicating binary data as a sequence of UWB pulses using time division multiple access (TDMA), the method comprising:

allocating a succession of TDMA time intervals to respective users;

transmitting multiple UWB data pulses in a first TDMA time interval; and

receiving multiple UWB return data pulses later in the same TDMA time interval.

3. (Currently Amended) A method as defined in claim 2, wherein:

the multiple UWB data pulses are transmitted to a first user; and

the multiple UWB return data pulses are received from the same first user.

4. (Currently Amended) A method as defined in claim 3, wherein the method further comprises:

transmitting multiple UWB data pulses to a second user in a second TDMA time interval; and

receiving multiple UWB return data pulses from the second user in the second TDMA time interval.

5. (Original) A method as defined in claim 2, wherein:

each TDMA time interval is selected to be at least twice the propagation time needed to transmit data to a user, to minimize interference effects.

6. (Currently Amended) For use in an ultra wideband (UWB) communication system, a method for communicating binary data as a sequence of UWB pulses using time division multiple access (TDMA), the method comprising:

allocating subintervals of each TDMA time interval to different users;

transmitting multiple UWB data pulses in a first TDMA time interval, wherein the data pulses are addressed to separate multiple users; and

receiving multiple UWB return data pulses later in the same TDMA time interval, wherein the return data pulses are received from separate multiple users.

7. (Currently Amended) A method as defined in claim 6, and further comprising:

transmitting multiple UWB data pulses to multiple users in a second TDMA time interval; and

receiving multiple UWB return data pulses later in the same second TDMA time interval.

8. (Original) A method as defined in claim 6, wherein:

each TDMA time interval is selected to be at least twice the propagation time needed to transmit data to a user, to minimize interference effects.